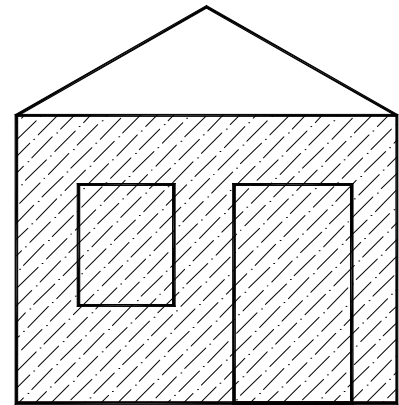


Project Address:_____ Permit Number:_____

Name of Designer:_____ Occupation:_____

- 1) Use the table below to calculate the area of each exterior wall of the proposed addition. Add all the wall areas in the right hand column and place the sum in the "Total Wall Area =" box.

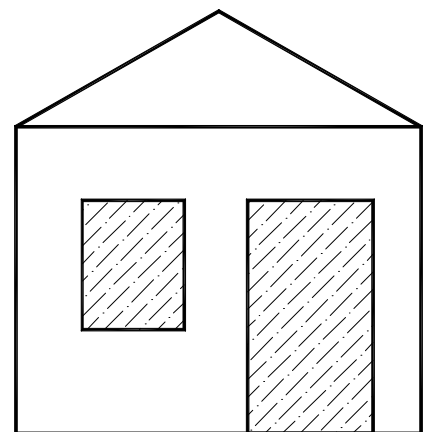
SQUARE FOOTAGE OF WALLS		
Wall	Height x Length	Area
1		
2		
3		
4		
5		
Total Wall Area =		



WALL AREA

- 2) Use the table below to calculate the area of each window and door type of the proposed addition. Add all the window and door areas in the right hand column and place the sum in the "Total Window/Door Area =" box.

SQUARE FOOTAGE OF WINDOWS OR DOORS		
Window/Door	Height x Width x No. of each	Area
1		
2		
3		
4		
5		
6		
7		
8		
Total Window/Door Area =		



WINDOW/WALL AREA

- 3) Transfer Total Wall and Total Window/Door Areas from the above tables to the appropriate boxes below and perform the calculation shown.

$$\begin{array}{c} \text{Total Window/Door Area} \\ \boxed{} \end{array} \div \begin{array}{c} \text{Total Wall Area} \\ \boxed{} \end{array} \times 100 = \boxed{} \% \quad \text{Percent Openings}$$

- 4) Check the most appropriate row for the Percent Opening calculated in Step 3. Use the next highest value in the Maximum Allowable Percent Opening column.

WALL, GLASS R-VALUE DETERMINATION				
Check ✓ Row	Maximum Allowable Percent Opening	Wall Insulation R-Value	Window/Door R-Value*	Glass Type
	6%	R-11	0.89	Single Glazed Openings
	7%	R-13		
	9%	R-19		
	8%	R-11	1.15	Double Glazed Openings
	10%	R-13		
	12%	R-19		
	12%	R-11	1.5	Double Glazed Openings
	13%	R-13		
	16%	R-19		
	16%	R-11	2.0	Double Glazed Openings
	18%	R-13		
	22%	R-19		
	20%	R-11	2.4	Low E, Double Glazed Openings
	22%	R-13		
	26%	R-19		
	24%	R-11	2.8	Low E, Double Glazed Openings
	27%	R-13		
	32%	R-19		

*U-value = 1 / R-Value

- 5) Transfer the required wall insulation R-value and the Window/Door R-value from the table above to the appropriate two boxes in the table below. The other figures in the table are fixed. All values in the table below, when applicable, must match those shown on the construction drawings.

REQUIRED R-VALUES	
Exterior walls	
Windows and doors	
Roof/ceiling	R-30
Floor over crawl space (when applicable)	R-19
Floors at bay windows (when applicable)	R-30
Crawl space walls (when applicable)	R-13